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1967-1968

To Communicate with the School

ADDRESS INQUIRIES TO: Physical and Occupational Therapy, College of Physicians
and Surgeons, 630 West 168th Street, New York, N.Y. 10032

Telephone: (Area code 212) 579-3781

Columbia University

Department of Physical Medicine and Rehabilitation

Courses in
Physical Therapy and
Occupational Therapy
1967-1968

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Officers of Instruction

Grayson Kirk, Ph.D., LL.D. *President of the University*

Lawrence H. Chamberlain, Ph.D., LL.D. *Vice President of the University*

Jacques Barzun, Ph.D. *Dean of Faculties and Provost of the University*

H. Houston Merritt, M.D. *Vice President in Charge of Medical Affairs; Dean of the Faculty of Medicine*

George A. Perera, M.D. *Associate Dean and Secretary of the Faculty of Medicine*

Robert C. Darling, M.D. *Chairman of the Department of Physical Medicine and Rehabilitation; Medical Director of Courses in Physical Therapy and Occupational Therapy*

Mary E. Callahan, M.A. *Director of Courses in Physical Therapy*

Marie Louise Franciscus, M.A. *Director of Courses in Occupational Therapy*

Ruth Dickinson, M.A. *Associate Director of Courses in Physical Therapy*

Nancy B. Ellis, M.S. *Associate Director of Courses in Occupational Therapy*

David L. Andrews. *Instructor in Orthopedics*
B.A., Williams; M.D., Columbia

Gustav J. Beck. *Instructor in Medicine*
B.S., Columbia; M.D., New York University

Signe Brunnstrom. *Instructor in Physical Therapy*
B.S., Uppsala College, Sweden; M.A., New York University; Physical Therapy, Royal Gymnastic Central Institute, Sweden.

Mary E. Callahan. *Associate Professor of Physical Therapy*
B.S., New York University; M.A., Columbia; Graduate, Clinton Hospital School of Nursing; Certificate in Physical Therapy, Posse Institute

Malcolm B. Carpenter. *Professor of Anatomy*
B.A., Columbia; M.D., Long Island

Graham Clark. *Associate Professor of Clinical Ophthalmology*
B.S., M.D., Virginia

Theodore Corbitt. *Assistant in Physical Therapy*
B.S., Cincinnati; M.A., Certificate in Physical Therapy, New York University

Robert C. Darling. *Simon Baruch Professor of Physical Medicine and Rehabilitation*
B.A., M.D., Harvard

Robert J. Dellenback. *Assistant Professor of Physiology*
B.A., M.A., Ph.D., California (Los Angeles)

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B.S. in Occupational Therapy, New York University; M.A., Prof. Dip. in Ed., Columbia

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Gino DiVirgilio. *Instructor in Anatomy*
B.Sc., St. Michael; M.Sc., St. Bonaventure; Ph.D., Ottawa; M.D., Geneva

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B.S., M.D., Manitoba; D.Phil., Oxford

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B.S., Allegheny; M.S., Pennsylvania; Certificate in Occupational Therapy, Columbia

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B.A., Lebanon Valley; Graduate, Philadelphia School of Occupational Therapy

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B.S., Ohio State; M.A., Prof. Dip. in Ed., Columbia; Graduate, Philadelphia School of Occupational Therapy

I. Ignacy Goldberg. *Professor of Education (Teachers College)*
M.Ph., Warsaw (Poland); M.A., Ed.D., Columbia

A. David Gurewitsch. *Clinical Professor of Rehabilitation Medicine*
M.D., Basel

Morton Hoberman. *Associate Clinical Professor of Physical Medicine and Rehabilitation*
B.S., New York University; M.B., M.D., Wayne

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B.S., Panzer; Certificate in Physical Therapy, Hospital for Special Surgery

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M.E., New York University; M.D., Chicago Medical School

Shulamith Kastein. *Lecturer in Otolaryngology*
Diploma, Vienna

Rose Krebs. *Instructor in Fine and Industrial Arts (Teachers College)*
B.A., College of the City of New York; M.A. in Art Ed., New York University

Marion D. Laird. *Associate in Obstetrics and Gynecology*
B.A., Queens (Ontario); M.D., Toronto

Yasha Lisenco. *Instructor in Fine and Industrial Arts (Teachers College)*
B.S., College of the City of New York; M.A., Columbia

Harrison L. McLaughlin. *Professor of Clinical Orthopedic Surgery*
M.D., C.M., Queens (Ontario)

J. Lowry Miller. *Clinical Professor of Dermatology*
B.A., North Carolina, M.D., Pennsylvania

Anne Cronin Mosey, O.T.R. *Instructor in Occupational Therapy*
B.S., Minnesota; M.A., New York University

Charles R. Noback. *Associate Professor of Anatomy*
B.S., Cornell; M.S., New York University; Ph.D., Minnesota

Joseph L. O'Brien. *Associate in Neurology*
B.A., Princeton; M.D., Cornell

Margaret O'Neill. *Instructor in Physical Therapy*
B.S., M.A., New York University

Mary-Ellen Potash. *Instructor in Physical Therapy*
B.A., Syracuse; Certificate in Physical Therapy, Columbia

John B. Price, Jr. *Assistant Professor of Surgery*
M.A., Texas; M.D., Johns Hopkins

K. Barbara Macauley Reilly, O.T.R. *Instructor in Occupational Therapy*
B.Sc., London; Certificate in Occupational Therapy, Columbia

Helen Schucman. *Assistant Professor of Medical Psychology*
B.A., M.A., Ph.D., New York University

Eleanor W. Shelly, O.T.R. *Instructor in Occupational Therapy*
B.S., West Chester State College; Certificate in Occupational Therapy, Columbia

Charles Siegal. *Instructor in Psychiatry*
B.A., New York University; M.D., New York State University

Blanche Talmud. *Instructor in Physical Therapy*
B.S., Certificate in Physical Therapy, New York University

Leonard M. Trawick. *Assistant Professor of English*
B.A., Sewanee; M.A., Chicago; Ph.D., Harvard

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B.S., New York University; Certificate in Occupational Therapy, Columbia

Janet G. Vandiveer, O.T.R. *Assistant Professor of Occupational Therapy*
B.S., Columbia

Lawrence H. Wisham. *Assistant Clinical Professor of Physical Medicine and Rehabilitation*
B.S., New York University; M.D., Chicago Medical School

Shyh-Jong Yue. *Associate Clinical Professor of Physical Medicine and Rehabilitation*
M.D., National College of Medicine, Shanghai

Edwin Ziegfeld. *Professor of Fine Arts (Teachers College)*
B.S.L.A., B.S. in Ed., Ohio State; M.L.A., Harvard; Ph.D., Minnesota

► SPECIAL LECTURERS

John R. Elpers. *Fellow in Community Psychiatry*
B.A., M.D., Indiana

Margery Gross. *Supervisor, Cerebral Palsy Department, Institute for the Crippled and Disabled*
A.S., New Haven Junior College; Certificate in Physical Therapy, Hospital for Special Surgery

Gregory Heimarck. *Acting Chief Resident, Children's Service, New York State Psychiatric Institute*
B.A., St. Olaf; M.D., Columbia

Helen Hennessy. *Rehabilitation Consultant and Supervisor of Physical Therapy, Visiting Nurse Service of New York*
Graduate, Yale School of Nursing; B.S., Columbia; Certificate in Physical Therapy, Hospital for Special Surgery

Earl A. Lewis. *Prosthetic Research and Education Officer, Veterans Administration*
B.A., Brooklyn; Certificate in Physical Therapy, Stanford; M.A., New York University

Jacob Meislin. *Chief, Physical Medicine and Rehabilitation, Veterans Administration Hospital, Montrose, N.Y.*
B.S., College of the City of New York; M.D., Lausanne

Betty Meredith-Jones. *Instructor, New School for Social Research*
Graduate, Chelsea College, London; M.A., Columbia

Cecilia Sattely, O.T.R. *Chief, Occupational Therapy, Bronx Veterans Administration Hospital*
B.S. in Occupational Therapy, M.A., New York University

Martha E. Schnebly, O.T.R. *Director of Occupational Therapy, Institute of Rehabilitation Medicine; Assistant Professor of Clinical Rehabilitation Medicine, New York University*
B.S., Maryland State Teachers College; M.A., Certificate in Occupational Therapy, Columbia

Joseph E. Snyder. *Assistant Vice President, Presbyterian Hospital*
B.A., Nebraska; M.D., Pennsylvania

Sol L. Warren. *State Coordinator of Internship Training, Division of Vocational Rehabilitation, New York State Department of Education*
B.S., Brooklyn; M.A., Columbia; Ph.D., New York University

► ADMINISTRATIVE STAFF

Inez E. Klinck, B.A. *Assistant to the Dean*

Bernis D. Moss, Jr., M.S. *Business Officer*

Eileen H. Daly. *Assistant to the Registrar of the University*

Henrietta E. Ames. *Administrative Assistant*

Courses in Physical Therapy

Physical Therapy is one of the professions which contribute to the comprehensive health care for disabled, injured, and handicapped individuals. It is involved with the restoration of function and the prevention of disability following disease, injury, or loss of a body part. The ultimate aim is to help the patient attain his maximum performance and to assume his place in society while learning to live within the limits of his capabilities.

As a member of a group, working cooperatively with the physician and with personnel from other medical services, the physical therapist plays an important role in helping the patient attain the highest possible degree of physical, mental, social, and occupational independence. He participates in the evaluation of the patient's capacity for physical performance and administers physical measures and activities that are appropriate and beneficial to the patient's recovery.

The utilization of the therapeutic properties of exercise, heat, cold, electricity, sound, and massage, as well as assistive devices such as canes, crutches, and prostheses, are among the measures used to attain the goal of maximum performance and independence.

The physical therapist may work in hospitals, clinics, children's centers, physicians' offices, the U.S. Public Health Service, the Visiting Nurse Service, and other community health agencies. He may be self-employed, work part-time, or enter the Armed Services. The experienced physical therapist may assume responsibilities in the administration of a physical therapy department and the supervision of other physical therapists; he may become involved in academic or clinical teaching, and participate in research. Opportunities are excellent and limitless in the field of physical therapy, and the demand for qualified physical therapists far exceeds the present supply. The area of service, research, and education assure physical therapists an interesting selection of positions in this country and, in fact, in many other parts of the world.

The student in the program of study at Columbia is expected to have a broad background in general education, including knowledge of the fundamental principles of the social, biological, and physical sciences. The professional curriculum is designed to give the student a foundation in the basic and medical sciences which underlie the practice of physical therapy. It proceeds from there to the knowledge and skills more directly related to practice. Through this integrated, sequential course of study, the student develops an understanding of the principles, concepts, and skills which are necessary for the proper practice of the profession. In addition to theoretical classroom instruction and demonstrations, students observe treatment procedures and receive clinical instruction and experience in teaching hospitals under University supervision.

The Bachelor of Science degree is awarded upon completion of the full two-year program. This program is based upon two years (60 semester credits) of college work in the liberal arts, including the proper science prerequisites.

The Certificate of Proficiency in Physical Therapy is awarded upon completion of the program (academic and clinical) prescribed for students of advanced standing. This program is based upon the work done for the bachelor's degree at an accredited college or university, including the courses required for admission to the program.

The courses described in this bulletin meet the requirements of the American Physical Therapy Association and of the Council on Medical Education of the American Medical Association. These organizations regulate the standards by which schools offering physical therapy courses are accredited. Graduates of either program are eligible for admission to the examination of the American Registry of Physical Therapists and for membership in the American Physical Therapy Association.

Many states require licensing or registration of physical therapists, for which examinations are held at intervals during the year. A student should become familiar with the requirements in his state so that any required examination may be taken as soon as possible after graduation. In New York State the law requires that a graduate pass the qualifying examination conducted by the Department of Education of the State of New York. This examination is usually held in June and December of each year. According to the law in New York State, only those persons who are citizens or who have filed intentions of becoming citizens of this country may be considered for admission to the examination.

ADMISSION REQUIREMENTS

Students are admitted only in September. In subjects taken at other institutions for which transfer credit is allowed, a grade of C or better is required. The ability to swim is required for both programs of study in the second term. Students unable to swim at the time of admission are responsible for securing instruction for themselves before the second term. Applicants for admission must be graduates of approved high schools or the equivalent, and then must satisfy *one* of the following:

FOR THE DEGREE PROGRAM

The completion of at least 60 semester credits (two years) of liberal arts courses in a college approved by Columbia University. Courses must include (a) 8 semester credits in biological science, (b) 8 semester credits in physics, (c) 6 semester credits in English, and (d) 6 semester credits in psychology.* Elective courses in foreign languages, literature, humanities, social sciences, and natural sciences are recommended. Students who have had a balanced education are preferred.

FOR THE CERTIFICATE PROGRAM

Graduation from an approved college with at least a Bachelor of Science or Bachelor of Arts degree, the undergraduate work to include (a) 8 semester credits in biological science, (b) 8 semester credits in physics, (c) 9 semester credits in

* Requirements for admission to the licensure examination for physical therapists in the state of New York include 6 semester credits in biology, 6 in chemistry, and 6 in physics. Students who plan to practice in New York State should accordingly fulfill these requirements.

English, and (d) 6 semester credits in psychology.* Elective courses in foreign languages, literature, humanities and social sciences, and natural sciences are recommended. Students who have had a balanced education are preferred.

ADMISSION PROCEDURE

Application forms may be obtained by writing to the Physical Therapy Office, College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y. 10032, and should be filed by June 1 preceding the academic year in which the student wishes to begin his studies. The completed form must be accompanied by the application fee of \$15. This fee is not returnable and is not credited toward tuition. Transcripts of all post-secondary education should be forwarded by the registrars of the respective schools directly to the Director of Courses in Physical Therapy.

A personal interview will be arranged for each applicant.

FOREIGN STUDENTS

Students from other countries are urged to apply for admission several months in advance of the time they wish to begin their studies. Application must be made on the form provided by the College of Physicians and Surgeons. The applicant must fulfill the usual admission requirements, as all students are considered for admission on the same basis.

A personal interview is required of all applicants, when feasible. If the applicant does not plan to be in this country until after action has been taken on his application, the College will try to arrange for an interview with a therapist or physician in the home country.

At the time application is filed, records must be submitted of all college or university education completed. These will be evaluated by the Foreign Student Admissions Officer of the University to determine the equivalency of the applicant's educational background in terms of admission requirements.

Further information about expenses, living arrangements in this country, and the University orientation program for foreign students may be obtained by writing to the Foreign Student Adviser, 211 The Foreign Student Center, Columbia University, New York, N.Y. 10027, U.S.A.

Program of Study

The University reserves the right to withdraw or modify these courses or to change the instructor as may be necessary.

► DEGREE PROGRAM

Degree candidates take the entire program of courses listed below and should consult the bulletins of Teachers College and the School of General Studies for suitable electives.

All candidates for the B.S. degree must have taken at least 6 semester credits of English before entering the program. In addition, the student is required to complete the 3 semester credits of English composition which are scheduled as part of the professional curriculum at Columbia University. During the registration period, the English Placement test is given to assess the individual's level of competency and to determine the course in which the student should register (see Registration, page 31).

The program is summarized in outline form on page 14.

JUNIOR YEAR: AUTUMN TERM

***Anatomy 155. Human anatomy**

Professor Noback, Dr. DiVirgilio, and Miss Jones. 3 points.

Anatomy of the human body, with emphasis on those features which are most important for muscular activity. Instruction is given by means of lectures and laboratory work, the latter based on prepared dissection of the human body.

English F1101x. College composition

Professor Trawick and associates. 3 points.

Prerequisite: the English Placement Test (see page 31).

Introduction to linguistic processes and problems; training in the writing of expository papers.

***Exercise 111. Theory and practice of basic movements and posture**

Professor Dickinson and Miss Meredith-Jones. 2 points.

The dynamics of normal human motion and analysis of body alignment. The aims of exercise treatment relating to structure and function. Lectures and laboratory.

***Kinesiology 107. Applied anatomy and kinesiology, I**

Professor Dickinson and associates. 3 points.

Application of knowledge of gross anatomy of skeletal and muscular systems to mechanics of bodily movement; application of neurophysiological principles to human motion. Analysis of skills used in daily activity. Lectures and laboratory.

***Neuroanatomy 95. Anatomy of the nervous system**

Dr. O'Brien. 2 points.

Anatomy of the nervous system of man, including the structural unit, the cerebrospinal system, and the autonomic system. Attention is given to the gross divisions of the brain, spinal cord, and peripheral nerves, with emphasis on the controls affecting voluntary motion.

***Nursing Procedures 17. Patient management**

Miss Jones. 1 point.

The role of the physical therapist, with emphasis on interprofessional and patient relationships. Essential principles and techniques of bandaging, asepsis, patient care, body mechanics, charting, and first aid. Lectures and laboratory.

***Orientation 15. Professional ethics and institutional organization**

Professor Callahan and associates. 0 points.

A general introduction to the organization of hospitals and to the historical developments and trends in physical therapy. Survey of the role and function of the physical therapist and other personnel, and their interrelationships in patient care.

***Physiology 157. Human physiology**

Professors Dellenback and Emmers. 3 points.

A comprehensive discussion of the major organ systems of the human body, with emphasis on the physiology of exercise. Assigned readings and selected demonstrations.

JUNIOR YEAR: SPRING TERM**Clinical Experience 2. Introduction to clinical education**

2 points.

Orientation to institutions, physical therapy departments, and patients, to record-keeping, and to assisting in selected activities.

***Exercise 112. Principles and application in treatment**

Professors Darling and Dickinson, and associates. 4 points.

The basic principles of therapeutic exercise, including physiology of exercise and muscle re-education, muscle evaluation, tests and measurements, and evaluation of functional activities. Principles of teaching activities to patients; analysis of skills used in daily activity and other activities in physical therapy. Lectures and laboratory.

***Kinesiology 108. Applied anatomy and kinesiology, II**

Professors Dickinson and Emmers, and Miss Brunnstrom. 3 points.

A continuation of *Kinesiology 107*.

***Neurology 106. Clinical neurology**

Dr. Charlton. 2 points.

Etiology, symptomatology, and treatment in diseases of the brain, spinal cord, and peripheral nerves.

***Physical Agents 10. Electrotherapy, thermo- and hydrotherapy**

Professors Darling and Kaplan, and Miss Jones. 3 points.

Physiological principles and technique of the diagnostic and therapeutic uses of electricity, sound, heat, cold, and water and other liquids in therapy. Lectures and laboratory.

***Psychiatry 102. Elementary psychiatry**

102: Professor Schucman, Dr. Siegal, and associates. 3 points.

Etiology and symptomatology of the major and minor psychoses, including the psychoneuroses and their treatment. Lectures, clinical demonstrations, and field trips. Work for the third point includes a survey of psychological tests and measurements, and interpretation of their results for the physical and occupational therapist.

SUMMER

Degree candidates spend eight weeks (June and July) in full-time clinical instruction and experience at one or more of the affiliated hospitals (see pages 15–17).

They attend lectures, clinics, and staff meetings, receive supervised practical experience in physical therapy, prepare a case study, and are introduced to related treatment departments.

Certificate candidates have a similar experience for four months (June, July, August, and September).

SENIOR YEAR: AUTUMN TERM

Clinical Experience 3. Clinical instruction and practice

Professor Callahan (coordinator). 3 points.

Lectures, observation, demonstrations, and supervised practice in various clinics of physical medicine and rehabilitation. Scheduled meetings on assigned reading, reports, and orientation to program planning.

***Massage 3. Essentials of massage and techniques of relaxation**

Professor Gurewitsch and Miss Jones (in charge). 2 points.

Principles and techniques of basic massage and relaxation, with emphasis on relating knowledge of anatomy, physiology, and pathology to massage. Lectures, demonstrations, and practice.

***Medicine and Surgery 101. General medicine and surgery**

Professors Downey (medicine) and Price (surgery). 2 points.

General medicine: a survey of medicine, with emphasis on medical conditions commonly seen by therapists. Lectures deal primarily with the relationship of pathological physiology to the development of signs and symptoms of disease. *General surgery:* a survey of those common diseases for which surgical treatment is emphasized, including the underlying anatomy, pathology, and biochemistry.

Psychiatry 103. Psychiatric considerations in medicine

Dr. Elpers. 2 points.

Aspects of disease, hospitalization, and treatment, including discussions of anxiety, depression, dependency, regression, pain, and more specific psychiatric syndromes as exemplified in actual patients.

Electives (6 points).

Chosen with the approval of the adviser. Elective courses are arranged so that students may continue or supplement the work done in prescribed courses.

SENIOR YEAR: SPRING TERM

***Clinical Applications 130. Survey of medical and surgical conditions in relation to physical medicine**

Professor Darling and associates. 3 points.

This course gives the student a clear acquaintance with disease as it occurs in the practice of physical medicine. Specialists discuss the problems in their fields of practice, including particular pathology and the needs of physical medicine. This analysis is followed by prescriptive physical therapy to cover these special indications. There will be further clinical practice in hospitals.

Clinical Experience 4. Clinical instruction and experience

Professor Callahan (coordinator). 3 points.

A continuation of *Clinical Experience 3*.

***Orientation 16. Seminar**

Professor Callahan and associates. 0 points.

Lecture and discussion of topics of importance to the therapist in practice, including organization and administration of departments of physical therapy; job placement and recent developments in physical medicine. Orientation to the physical therapist in public health, and his contributions to healthy community relationships and to trends in physical therapy education.

***Orthopedics 136. Orthopedics**

Dr. Andrews. 2 points.

Lectures and clinical presentations which are descriptive of orthopedic conditions, including discussion of related problems—social, medical, surgical, and rehabilitation.

Electives (7 points).

Chosen with the approval of the adviser. Elective courses are arranged so that students may continue or supplement the work done in prescribed courses.

► CERTIFICATE PROGRAM

The certificate program is outlined on page 14. It consists of the starred courses listed under the degree program, and the course listed below.

TE 3410. Psychology of the physically handicapped

Professor Goldberg and associates. 2 points.

Psychology of all types of physically handicapped children, including the multiply handicapped. Emotional and social problems of such children and the psychological bases of appropriate education and care.

Outline of the Program

DEGREE PROGRAM: 64 POINTS

JUNIOR YEAR: AUTUMN TERM

Anatomy 155	3
English F1101	3
Exercise 111	2
Kinesiology 107	3
Neuroanatomy 95	2
Nursing Procedures 17	1
Orientation 15	0
Physiology 157	3
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Total points 17

JUNIOR YEAR: SPRING TERM

Clinical Experience 2	2
Exercise 112	4
Kinesiology 108	3
Neurology 106	2
Physical Agents 10	3
Psychiatry 102	3
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Total points 17

SENIOR YEAR: AUTUMN TERM

Clinical Experience 3	3
Massage 3	2
Medicine and Surgery 101	2
Psychiatry 103	2
Electives	6
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Total points 15

SENIOR YEAR: SPRING TERM

Clinical Applications 130	3
Clinical Experience 4	3
Orientation 16	0
Orthopedics 136	2
Electives	7
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Total points 15

CLINICAL OBSERVATION, INSTRUCTION, AND SUPERVISED EXPERIENCE: in June and July between the junior and senior years.

CERTIFICATE PROGRAM: 40 POINTS

AUTUMN TERM

Anatomy 155	3
Exercise 111	2
Kinesiology 107	3
Massage 3	2
Medicine and Surgery 101	2
Neuroanatomy 95	2
Nursing Procedures 17	1
Orientation 15	0
Physiology 157	3
Psychology TE 3410	2
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Total points 20

SPRING TERM

Clinical Applications 130	3
Exercise 112	4
Kinesiology 108	3
Neurology 106	2
Orientation 16	0
Orthopedics 136	2
Physical Agents 10	3
Psychiatry 102	3
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Total points 20

CLINICAL INSTRUCTION AND SUPERVISED EXPERIENCE: in June, July, August, and September following completion of the course work.

Hospitals Affiliated for Clinical Education

During the autumn and spring terms, attendance in the hospitals and clinics listed below is concurrent with regular classroom work for degree candidates. In the summer, both degree candidates and certificate candidates are required to spend a period in full-time clinical practice (see "Summer," page 11). During this period students attend lectures, clinics, and staff meetings, receive supervised practical experience in physical therapy, and are introduced to related treatment departments.

BLYTHEDALE, VALHALLA, N.Y.

Robert Stone. *Executive Director*
A. David Gurewitsch, M.D. *Medical Director*
Margaret O'Neill. *Chief Physical Therapist*

BURKE FOUNDATION REHABILITATION CENTER, WHITE PLAINS, N.Y.

George Brush. *Superintendent*
Edward J. Lorenze, M.D. *Medical Director*
Anthony De Rosa. *Coordinator of Rehabilitation and Education Services*

COLUMBIA-PRESBYTERIAN MEDICAL CENTER HOSPITALS, NEW YORK, N.Y.

Alvin J. Binkert. *Executive Vice President and General Manager*
Robert C. Darling, M.D. *Director, Clinical Physical Medicine and Rehabilitation*
Mary-Ellen Potash. *Chief Physical Therapist*

GOLDWATER MEMORIAL HOSPITAL, NEW YORK UNIVERSITY MEDICAL CENTER, WELFARE ISLAND, N.Y.

Michael Dasco, M.D. *Director, Department of Rehabilitation Medicine*
Theodore Childs. *Coordinator of Physical Therapy Services*

HARTFORD REHABILITATION CENTER, INCORPORATED, HARTFORD, CONN.

Arthur D. Wolf, M.D. *Supervising Medical Consultant*
Anne B. Good. *Supervisor, Physical Therapy, Hospital Services*

HOSPITAL FOR SPECIAL SURGERY, NEW YORK, N.Y.

T. Gordon Young. *Director*
Anna Kara, M.D. *Director, Physical Medicine and Rehabilitation*
Florence Winter. *Supervisor, Physical Therapy*

INSTITUTE FOR THE CRIPPLED AND DISABLED, NEW YORK, N.Y.

John Untereker, M.D. *Director of Medical Services*
Blanche Talmud. *Supervising Therapist*

INSTITUTE OF REHABILITATION MEDICINE, NEW YORK UNIVERSITY MEDICAL CENTER, NEW YORK, N.Y.

Howard A. Rusk, M.D. *Medical Director*
Jack M. Hofkosh. *Supervisor, Physical Therapy Department*

KESSLER INSTITUTE FOR REHABILITATION, WEST ORANGE, N.J.

William K. Page, Jr. *Administrator*
 Henry H. Kessler, M.D. *Medical Director*
 James Tucker. *Director of Physical Therapy*

MIDDLESEX REHABILITATION AND POLIO HOSPITAL, NORTH BRUNSWICK, N.J.

Maurice Dorsen, Ph.D. *Administrator*
 Norman Reitman, M.D. *Chief of Medical Staff*
 Michael R. Sofranko. *Chief Physical Therapist*

MONTEFIORE HOSPITAL, NEW YORK, N.Y.

Martin Cherkasky, M.D. *Director*
 Jerome S. Tobis, M.D. *Chief, Division of Rehabilitation Medicine*
 George Vagias. *Director of Physical Therapy*

MOUNT SINAI HOSPITAL, NEW YORK, N.Y.

Martin R. Steinberg, M.D. *Director*
 Lawrence H. Wisham, M.D. *Chief, Physical Medicine and Rehabilitation*
 Gerald Spilky. *Chief Physical Therapist*

NEW YORK HOSPITAL, NEW YORK, N.Y.

Kenneth Archibald, M.D. *Director of Physical Medicine*
 (Mrs.) Mary Lawrence. *Supervisor of Physical Therapy*

NEW YORK MEDICAL COLLEGE—CENTER FOR CHRONIC DISEASE, BIRD S. COLER HOSPITAL, WELFARE ISLAND, N.Y.

Milton Lowenthal, M.D. *Director*
 Milton Holtzman, M.D. *Chief of Clinical Services, Physical Medicine and Rehabilitation*
 Milton C. Bailey. *Chief, Physical Therapy Section*

NEW YORK STATE REHABILITATION HOSPITAL, WEST HAVERSTRAW, N.Y.

Seymour Bluestone, M.D. *Director*
 Morton Hoberman, M.D. *Chief, Rehabilitation Services and Research*
 Hyman Dervitz. *Director, Physical Rehabilitation and Therapy Section*

ST. LUKE'S HOSPITAL, NEW YORK, N.Y.

Charles W. Davidson. *Executive Director*
 Shyh-Jong Yue, M.D. *Director, Department of Physical Medicine*
 (Mrs.) Doris Lambert. *Supervisor, Physical Therapy*

STATE OF CONNECTICUT VETERANS HOME AND HOSPITAL, ROCKY HILL, CONN.

Herman L. Kamenetz, M.D. *Chief, Physical Medicine and Rehabilitation*
 Herbert Jones. *Supervisor of Physical Therapy*

U.S. PUBLIC HEALTH SERVICE, OUTPATIENT CLINIC, NEW YORK, N.Y.

H. McDonald Rimple, M.D. *Medical Officer in Charge*
 Lawrence Sidel. *Chief, Physical Therapy*

VETERANS ADMINISTRATION HOSPITAL, BRONX, N.Y.

Abraham M. Kleinman, M.D. *Manager*
 Alfred Ebel, M.D. *Chief, Physical Medicine and Rehabilitation Service*
 Morris Vogel. *Chief of Physical Therapy*

VETERANS ADMINISTRATION HOSPITAL, BROOKLYN, N.Y.

A. W. Kruger, M.D. *Manager*

Harry H. Samberg, M.D. *Chief, Physical Medicine and Rehabilitation*

Walter G. Fitzsimmons. *Chief of Physical Therapy*

VETERANS ADMINISTRATION HOSPITAL, MONTROSE, N.Y.

Leon Rackow, M.D. *Manager*

Jack Meislin, M.D. *Chief, Physical Medicine and Rehabilitation Service*

Henry Stano. *Chief, Physical Therapy*

VETERANS ADMINISTRATION HOSPITAL, NEW YORK, N.Y.

William J. Dann. *Manager*

Andor A. Weiss, M.D. *Chief, Physical Medicine and Rehabilitation Service.*

Aleks Tandyrak. *Chief, Physical Therapy*

VISITING NURSE SERVICE OF NEW YORK, N.Y.

Mary McCall Tyrie. *Director of Education*

Helen Hennessy. *Orthopedic Consultant; Supervisor of Physical Therapy*

Courses in Occupational Therapy

Occupational therapy is the use of purposeful activity as treatment in the rehabilitation of persons with physical or emotional disabilities. Among the tools of treatment used by the occupational therapist are creative and manual arts, activities of daily living, prevocational skills, and avocational pursuits. The occupational therapist works in consultation with qualified physicians, physical therapists, psychologists, nurses, social workers, speech therapists, vocational counselors, and others. Positions are available for work with patients of all ages in hospitals, outpatient centers, rehabilitation centers, halfway houses, special schools for the handicapped child, and in patients' homes. There is an acute shortage of occupational therapists to meet the increasing demands of rapidly expanding rehabilitation needs and programs. Therapists are needed as clinicians, administrators, educators, and investigators.

The education of the therapist is broad, since he must be able to evaluate the patient's abilities and administer treatment directed toward psychological adjustment, physical restoration, and prevocational goals. The therapist must be prepared to understand and interpret the physician's prescription; to understand the implications of the diagnostic condition as a medical entity and its meaning to the patient in terms of his life goals. He must be prepared to teach treatment activities at a level which will stimulate and aid each patient to work toward the highest level of adjustment in terms of specific and realistic treatment goals. He must be able to work in harmony and interdependence with other members of the institution staff and as a cooperative and loyal member of the therapeutic community. He must have the knowledge and skills necessary to carry out the organization and administration of the occupational therapy clinic.

Two programs of study are offered at Columbia, each based on a broad background of general education, as previously indicated. The first program, which leads to the degree of Bachelor of Science, consists of twenty-five months of professional education, including nine months of clinical education in affiliated hospitals. The second, which leads to a Certificate of Proficiency, consists of seventeen months of professional education, including nine months of clinical education. See "Admission Requirements" on page 19.

In both programs, classroom work is devoted to instruction in the biological, social, and clinical sciences, and to the treatment activities used by the occupational therapist. A program of student clerkships in conjunction with several hospitals and institutions of the metropolitan area enables students to observe and study treatment problems of specific diagnostic classifications as they are introduced in the medical lecture series and in treatment-application classes. Academic education is followed by a nine-month period of supervised clinical education in departments of teaching hospitals affiliated with the University.

The courses described in this bulletin meet the requirements set forth by the American Occupational Therapy Association and by the Council on Medical Education of the American Medical Association, as published in their *Essentials of an*

Accredited Curriculum in Occupational Therapy, which regulates the standards by which schools are accredited. Graduates of both the degree program and the certificate program are eligible for the examination leading to admission to the Registry of Occupational Therapists, maintained by the American Occupational Therapy Association. This examination is held throughout the country in January and June of each year. Admission to the registry is the certification of a therapist to practice.

ADMISSION REQUIREMENTS

Students are admitted only in September. Both men and women are admitted to professional courses, depending upon individual qualifications. Demands made on the physical endurance and emotional stamina of the therapist require a record of good health. Applicants must be graduates of an approved high school or the equivalent. Specific requirements for admission to each of the programs are as follows:

FOR THE DEGREE PROGRAM

An applicant must have completed at least two years of work in a college approved by Columbia University. He must have earned 60 semester credits in liberal arts with a grade of C or better, to include a minimum of 6 semester credits in biology (including zoology), 3 semester credits in English composition, 6 semester credits in psychology, and 3 semester credits in sociology. Applicants may strengthen their backgrounds by undertaking additional study in the behavioral sciences, and by completing a course in chemistry.

As a guide in planning these first two years of preparation in the liberal arts, the student is encouraged to maintain a balanced program of study including the biological, physical, and behavioral sciences and mathematics; English composition and speech; literature and languages; social sciences and philosophy; and the arts.

Transfer credit is usually not allowed either for courses in physical education or for any specific professional courses. A maximum of 12 credits is allowed for courses completed in music and in fine and industrial arts.

FOR THE CERTIFICATE PROGRAM

An applicant must hold a bachelor's degree acceptable to Columbia University. The work for the bachelor's degree must include 6 semester credits in biology (including zoology) and 12 semester credits in the behavioral sciences, of which 6 must be in psychology and 3 in sociology. Applicants may strengthen their backgrounds by including courses in child development, personality development, abnormal psychology, group development, chemistry, and the arts.

ADMISSION PROCEDURE

Forms to be used in applying for admission may be obtained by writing to the Occupational Therapy Office, College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y. 10032. Applications should be filed several months in advance of the time the student wishes to begin his studies. The completed forms

must be accompanied by the application fee of \$15. This fee is not returnable and is not credited toward tuition.

Transcripts of all post-secondary school education should be forwarded by the registrars of the respective schools directly to the Director of Courses in Occupational Therapy. A personal interview will be arranged for each applicant.

FOREIGN STUDENTS

Students from other countries are urged to apply for admission several months in advance of the time they wish to begin their studies. Application must be made on the form provided by the Occupational Therapy Office. The applicant must fulfill the usual admission requirements, as all students are considered for admission on the same basis.

A personal interview is required of all applicants, when feasible. If the applicant does not plan to be in this country until after action has been taken on his application, the College will try to arrange for an interview with a therapist or physician in the home country.

At the time application is filed, records must be submitted of all college or university education completed. These will be evaluated by the Foreign Student Admissions Officer of the University to determine the equivalency of the applicant's educational background in terms of admission requirements.

Further information about expenses, living arrangements in this country, and the University orientation program for foreign students may be obtained by writing to the Foreign Student Adviser, 211 The Foreign Student Center, Columbia University, New York, N.Y. 10027, U.S.A.

PREPROFESSIONAL EXPERIENCE IN OCCUPATIONAL THERAPY

A Summer Experience Program is conducted annually during July and August for college students who are undecided about their future vocations but have a basic interest in the medical field. This program gives the student an opportunity to determine whether the profession of occupational therapy meets his interests, talents, and expectations. Students are assigned as aides in occupational therapy departments of treatment centers or hospitals within the New York metropolitan area. Out-of-town applicants are responsible for making arrangements for living accommodations. Some clinical centers are able to provide room and board. In many cases financial compensation is given by the treatment centers to those student aides who need the summer months for gainful employment to help defray expenses for their continued education.

The Program is not a University course and carries no fee or academic credit. Applications for this program are accepted until March 15 and should be made through the guidance department of the student's college or by writing to: Summer Experience Program, Occupational Therapy Courses, College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y. 10032.

Program of Study

The University reserves the right to withdraw or modify the courses of instruction or to change the instructors as may be necessary.

► DEGREE PROGRAM

The degree program includes two academic years (sixteen months) of theoretical and technical study on the campus and nine months of clinical education in affiliated institutions of patient care. The utilization of summer periods for hospital experience enables the student to complete the full program in approximately two calendar years. The clinical education consists of full-time practical experience under the immediate direction of registered occupational therapists in psychiatric, orthopedic, neurological, general medical, and surgical services or hospitals. During the clinical education periods students also attend lectures, clinics, and staff meetings; they are introduced to related treatment departments and conduct case studies. Clinical education must be completed within one year after the academic work is completed. For electives, students should consult the bulletins of Teachers College and the School of General Studies.

All degree candidates must have taken at least 3 semester credits of English composition before entering the program. In addition, the student is required to complete the 3 semester credits of English composition which are scheduled as part of the professional curriculum at Columbia University. During the registration period, the English Placement Test is given to determine the course in which the student should register (see Registration, page 31).

The program is summarized in outline form on page 26.

JUNIOR YEAR: AUTUMN TERM

*Anatomy 155. Human anatomy

Professor Noback, Dr. DiVirgilio, and Mrs. Reilly. 3 points.

Anatomy of the human body, with emphasis on those features which are most important for muscular activity. Instruction is given by means of lectures and laboratory work, the latter based on prepared dissection of the human body.

*Neuroanatomy 95. Anatomy of the nervous system

Dr. O'Brien. 2 points.

The anatomy of the nervous system of man, including the structural unit, the cerebrospinal system, and the autonomic system. Attention is given to the gross divisions of the brain, spinal cord, and peripheral nerves, with particular emphasis on the controls affecting voluntary motion.

O.T. 11. Professional concepts

Professor Franciscus. 1 point.

Role of occupational therapy in patient evaluation and treatment; functions and ethical and legal responsibilities of the therapist; and the place of professional organizations.

O.T. 41. Therapeutic activities

Mrs. Mosey. 2 points.

Design principles and techniques as applied to textiles, plastics, paper, and wood. Emphasis is on the development of basic skills and the capacity to analyze the components of each activity for its application in treatment.

O.T. 63. Therapeutic activities

Mr. Lisenco. 2 points.

The fundamental principles both of woodworking with hand tools and of mechanical drawing.

***O.T. 71 and 71A. Introduction to group processes**

Mrs. Mosey. 1 or 2 points.

Degree candidates take 71 for 2 points; certificate candidates take 71A for 1 point.

Current theory, principles, and research results in the area of group dynamics are explored through group interaction of class participants. Focus is on aspects of group structure, growth, leadership, problem-solving processes, and their application to occupational therapy.

***Physiology 157. Human physiology**

Professors Dellenback and Emmers. 3 points.

A comprehensive discussion of the major organ systems of the human body, with emphasis on the physiology of exercise. Assigned readings and selected demonstrations.

Psychology 41. Human development

Dr. Heimarck. 3 points.

The mental, motor, social, and emotional development of man throughout his life span. Consideration of methods of coping with stress situations that may be encountered at different stages of development.

JUNIOR YEAR: SPRING TERM

English F1101y or F1102y. College composition

Professor Trawick and associates. 3 points.

Prerequisite: the English Placement Test (see page 31).

F1101: introduction to linguistic processes and problems; training in the writing of expository papers.

F1102: introduction to literary forms, the methods of research and documentation, and the writing of critical essays, including a major paper.

***O.T. 12. Evaluation and treatment of psychosocial dysfunction**

Mrs. Mosey. 2 points.

Current theories and application of occupational therapy in the evaluation, treatment, and rehabilitation of patients with psychosocial problems.

***O.T. 28. Therapeutic activities**

Miss Krebs. 2 points.

Introduction to the uses of clay to create functional pottery with coils, slabs, the potter's wheel, and by other methods. Moldmaking, decoration, glazing, and firing of kilns are studied for their uses in occupational therapy.

O.T. 42. Therapeutic activities

Mmes. Mosey and Reilly. 3 points.

Skills in leatherwork, garment construction, and needlework are developed for their uses in patient care. Activities are analyzed for their physical and psychological components.

O.T. 62. Communication: basic concepts for therapists

Mrs. Deutsch. 2 points.

The art of communication is studied to understand and develop relationships on different levels of interaction. One objective is to increase perceptual awareness of both verbal and nonverbal cues in the environment. Special emphasis is on techniques of observation, interviewing, reporting, and recording.

O.T. Clerkship 2. Experiences in psychosocial dysfunction

Mrs. Mosey. 3 points.

Coordination of instruction in psychology, psychiatry, and occupational therapy by assigned observation and supervised practice in psychiatric occupational therapy departments.

***Psychiatry 102 and 102A. Clinical conditions**

102: Professor Schucman, Dr. Siegal, and associates. 3 points.

102A: Dr. Siegal and associates. 2 points.

Degree candidates take 102 for 3 points; certificate candidates take 102A for 2 points.

Etiology and symptomatology of the major and minor psychoses, including the psychoneuroses and their treatment. Lectures, clinical demonstrations, and field trips. Work for the third point (degree candidates only) includes a survey of psychological tests and measurements, and interpretation of their results for the physical and occupational therapist.

SENIOR YEAR: AUTUMN TERM***Kinesiology 105. Applied anatomy and kinesiology**

Miss Schnebly (in charge) and Professor Ellis. 2 points.

Application of knowledge of gross anatomy of skeletal and muscular systems to mechanics of bodily movement. Analysis of skills and activities used in occupational therapy. Lectures and laboratory.

***Medicine and Surgery 101. Clinical conditions**

Professors Downey (medicine) and Price (surgery). 2 points.

General medicine: a survey of medicine, with emphasis on medical conditions commonly seen by therapists. Lectures deal primarily with the relationship of pathological physiology to the development of signs and symptoms of disease. *General surgery*: a survey of those common diseases for which surgical treatment is emphasized, including the underlying anatomy, pathology, and biochemistry.

O.T. 15. Pediatric application

Professor Ellis. 2 points.

Prerequisite: *Psychology 41* or the equivalent.

Current theories and methods used in treating children who have psychosocial and/or physical dysfunctions. Emphasis is on meeting the child's physical, emotional, and social needs. Specific evaluative and treatment procedures, including observation, developmental and neurological assessment, and the utilization of play as a media for treatment.

O.T. 43. Therapeutic activities

Professor Vandiveer and Mrs. Mosey. 4 points.

Design principles and techniques as applied to textiles, plastics, paper, and wood. Four-harness weaving, including pattern drafts, fabric analysis, and the development of loom adaptations as related to treatment. Development of skill and the capacity to analyze the components of each activity for its application in treatment.

O.T. Clerkship 3. Experiences in special fields

Mrs. Reilly (coordinator). 2 points.

Emphasis is on the role of occupational therapy in general medicine, surgery, and special fields, including the blind, the deaf, and the treatment aims with various age groups. Students visit a comprehensive group of hospitals and acquire wide experience in the various situations. A weekly seminar is held to discuss and supplement the experience received during the clerkship visits.

Psychiatry 103. Psychiatric considerations in medicine

Dr. Elpers and Mrs. Mosey. 3 points.

Aspects of disease, hospitalization, and treatment, including discussions of anxiety, depression, dependency, regression, pain, and more specific psychiatric syndromes as exemplified in actual patients. For occupational therapy students, there will be an additional seminar with Mrs. Mosey to analyze the use of activities in meeting the psychosocial needs of the physically handicapped.

Rehabilitation 115. Prevocational evaluation

Mrs. Reilly. 2 points.

The role of occupational therapy in exploring and evaluating employment potentials of the handicapped. Analysis of jobs into component tasks and their physical and mental demands. The work sample technique as a tool of prevocational and vocational rehabilitation, dexterity tests, and other tools. The role of other disciplines and agencies.

SENIOR YEAR: SPRING TERM***Neurology 106. Clinical conditions**

Dr. Charlton. 2 points.

Etiology, symptomatology, and treatment of diseases of the brain, spinal cord, and peripheral nerves.

***Orthopedics 136. Clinical conditions**

Dr. Andrews. 2 points.

Lectures and clinical presentations descriptive of orthopedic conditions, including discussion of related problems—social, medical, surgical, and rehabilitation.

O.T. 22. Departmental administration

Miss Sattely and special lecturers. 2 points.

Departmental organization and administration of occupational therapy as a service within a larger organization framework. Includes basic procedures, principles, legal aspects, and general guides. Introduction to governmental and nongovernmental agencies that make up the community of rehabilitation resources. Supplementary reading, term projects, and reports. Guest lecturers.

***O.T. 24. Principles and application of therapeutic exercise**

Professors Darling and Ellis and associates. 3 points.

Physiology of exercise provides a basis for lectures and laboratory experience in evaluative procedures and therapeutic activities used in the treatment of physical dysfunction. Muscle evaluation and re-education, activity analysis, perceptual-motor evaluation and treatment, and prosthetic evaluation and training.

O.T. 44. Therapeutic activities

Mrs. Reilly. 3 points.

A laboratory course to acquaint the student with some of the materials, equipment, and techniques to aid the handicapped in attaining maximum self-sufficiency in the activities of daily living. The needs of persons with motor, sensory, and emotional handicaps. Energy conservation techniques for the cardiac and tuberculous. Experience in making functional splints and adapted equipment suitable for the physically disabled.

O.T. 168. Therapeutic activities

Mr. Lisenco. 3 points.

The relationships of material, technique, and form in the fabrication of woods and metals. Opportunity for developing reasonable knowledge and skill in the use of tools and the fundamental processes for their use in occupational therapy.

O.T. Clerkship 4. Experience in physical dysfunction

Professor Ellis and Mrs. Reilly (Coordinator). 3 points.

Application of current principles and practices of therapeutic exercise as applied through occupational therapy techniques. A correlation of all previous and concurrent instruction in physical disabilities. Assigned case studies of patient application and study of allied professional fields. Weekly clinical assignments will be followed by a seminar to discuss cases and problems encountered.

► CERTIFICATE PROGRAM

The certificate program is completed in seventeen months. For eight months students study theoretical and technical subjects which consist of the starred courses

listed under the degree program plus those given below. In addition, students attend a weekly seminar throughout the academic year for readings and discussions of content areas of *O.T. 11* and *O.T. 22*, as described under the degree program. Clinical education of at least nine months is the same as described for degree candidates. The program is summarized in outline form on page 26.

ADDITIONAL AUTUMN-TERM COURSES

O.T. 45. Therapeutic activities

Mmes. Mosey and Reilly. 4 points.

Design principles and techniques as applied to textiles, plastics, paper, and wood. Garment construction and needlework are developed for their uses in patient care. Emphasis is on the acquisition of basic skills and the capacity to analyze the components of each activity for its application in treatment.

O.T. 69. Therapeutic activities

Mr. Lisenco. 3 points.

The relationships of material, technique, and form in the fabrication of woods and metals. The student has an opportunity to develop reasonable knowledge and skill in the use of tools and the fundamental processes for their use in occupational therapy.

ADDITIONAL SPRING-TERM COURSES

O.T. 46. Therapeutic activities

Mmes. Mosey and Reilly. 3 points.

Two- and four-harness weaving and other techniques of fabrication. Fundamentals of construction, decoration, and the use of leatherwork in patient care. Emphasis is on the development of basic skills and the analysis of inherent physical and psychological components.

O.T. Clerkship 6. Clinical project

Professor Franciscus (adviser). 1 point.

Independent study in selected aspects of pediatrics, geriatrics, and general medicine. Projects are planned individually with the adviser and include a survey of pertinent literature, field work in a treatment center when practicable, a class report, and a written report.

Rehabilitation 122. Activities of daily living and prevocational evaluation

Mrs. Reilly. 3 points.

Activities of daily living: a laboratory course to acquaint the student with some of the materials, equipment, and techniques to aid the handicapped in attaining maximum self-sufficiency through self-help and homemaking activities. Included is an introduction to the basic principles of orthotics. *Prevocational evaluation:* current methods used in analyzing the occupational potentialities of the handicapped and matching these abilities with job demands. The roles of occupational therapy in prevocational evaluation are explored.

► POSTGRADUATE COURSE

O.T. 212. Concepts of supervision related to occupational therapy practices in psychiatry

Mrs. Fidler and associates. Dates to be announced. 2 points.

Registration only by permission of the instructor. Open to registered occupational therapists with working experience. Minimum class, ten; maximum class, fifteen.

This course is planned to meet the needs of occupational therapists who supervise students and staff. Emphasis is on practice in psychiatric clinical settings, but a limited number of practitioners from other clinical areas will be admitted.

Further information and application forms are available from Occupational Therapy Courses, College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y. 10032.

Outline of the Program

DEGREE PROGRAM

JUNIOR YEAR: AUTUMN TERM

Anatomy 155: Human anatomy	3
Neuroanatomy 95: The nervous system	2
O.T. 11: Professional concepts	1
O.T. 41: Therapeutic activities	2
O.T. 63: Therapeutic activities	2
O.T. 71: Group processes	2
Physiology 157: Human physiology	3
Psychology 41: Human development	3
Total points	<u>18</u>

SENIOR YEAR: AUTUMN TERM

Kinesiology 105: Applied anatomy	2
Medicine and Surgery 101: Clinical conditions	2
O.T. 15: Pediatric application	2
O.T. 43: Therapeutic activities	4
O.T. Clerkship 3: Special fields	2
Psychiatry 103: Psychiatric considerations in medicine	3
Rehabilitation 115: Prevocational evaluation	2
Total points	<u>17</u>

JUNIOR YEAR: SPRING TERM

English F1101 or F1102: College composition	3
O.T. 12: Psychosocial dysfunction	2
O.T. 28: Therapeutic activities	2
O.T. 42: Therapeutic activities	3
O.T. 62: Communication	2
O.T. Clerkship 2: Experiences in psychosocial dysfunction	3
Psychiatry 102: Clinical conditions	3
Total points	<u>18</u>

SENIOR YEAR: SPRING TERM

Neurology 106: Clinical conditions	2
Orthopedics 136: Clinical conditions	2
O.T. 22: Administration	2
O.T. 24: Principles and application of therapeutic exercise	3
O.T. 44: Therapeutic activities	3
O.T. 168: Therapeutic activities	3
O.T. Clerkship 4: Experiences in physical dysfunction	3
Total points	<u>18</u>

CLINICAL EDUCATION IN PSYCHIATRY: June–August, between the junior and senior years.

CLINICAL EDUCATION IN SPECIFIED FIELDS: July–December, after the senior year.

CERTIFICATE PROGRAM

AUTUMN TERM

Anatomy 155: Human anatomy	3
Kinesiology 105: Applied anatomy	2
Medicine and Surgery 101: Clinical conditions	2
Neuroanatomy 95: The nervous system	2
O.T. 45: Therapeutic activities	4
O.T. 69: Therapeutic activities	3
O.T. 71A: Group processes	1
Physiology 157: Human physiology	3
Total points	<u>20</u>

SPRING TERM

Neurology 106: Clinical conditions	2
Orthopedics 136: Clinical conditions	2
O.T. 12: Psychosocial dysfunction	2
O.T. 24: Principles and application of therapeutic exercise	3
O.T. 28: Therapeutic activities	2
O.T. 46: Therapeutic activities	3
O.T. Clerkship 6: Clinical project	1
Psychiatry 102A: Clinical conditions	2
Rehabilitation 122: Activities of daily living and prevocational evaluation	3
Total points	<u>20</u>

SEMINAR: weekly throughout the academic year.

CLINICAL EDUCATION IN SPECIFIED FIELDS: July–March, following completion of the academic program.

Hospitals and Agencies Affiliated for Clinical Education

ALBERT EINSTEIN COLLEGE OF MEDICINE, BRONX MUNICIPAL HOSPITAL CENTER, BRONX, N.Y.

Eva Van Dow, M.D. *Medical Superintendent*

Arthur Abramson, M.D. *Chairman, Department of Rehabilitation Medicine*

Stephanie Presseller, O.T.R. *Chief of Rehabilitation Occupational Therapy*

BELLEVUE HOSPITAL MEDICAL CENTER, NEW YORK, N.Y.

Randolph Wyman, M.D. *Medical Director*

Bruce Grynbaum, M.D. *Director of Physical Medicine and Rehabilitation*

(Mrs.) Frances Corey, O.T.R. *Supervisor of Occupational Therapy*

Michi Yasumara, O.T.R. *Director of Children's Recreation Service*

BETH ABRAHAM HOSPITAL, BRONX, N.Y.

William Adelman. *Executive Director*

I. J. Estrin, M.D. *Director of Physical Medicine and Rehabilitation*

(Mrs.) Janet C. McMahon, O.T.R. *Chief, Occupational Therapy*

BLYTHEDALE CHILDREN'S HOSPITAL, VALHALLA, N.Y.

Robert Stone. *Administrator*

A. David Gurewitsch, M.D. *Medical Director*

(Mrs.) Ruth B. Knippenberg, O.T.R. *Director of Occupational Therapy*

BURKE REHABILITATION CENTER, WHITE PLAINS, N.Y.

Edward J. Lorenze, M.D. *Medical Director*

Margaret M. Schulz, O.T.R. *Director of Occupational Therapy*

CHESTNUT LODGE, ROCKVILLE, MD.

Dexter Bullard, M.D. *Director*

(Mrs.) Barbara T. Stevenson, O.T.R. *Director of Occupational Therapy*

CHILDREN'S REHABILITATION INSTITUTE, INC., REISTERSTOWN, MD.

William P. Germain. *Executive Director*

Winthrop M. Phelps, M.D. *Medical Director*

Patricia Potter, O.T.R. *Director of Occupational Therapy*

COLUMBIA-PRESBYTERIAN MEDICAL CENTER HOSPITALS, NEW YORK, N.Y.

Alvin J. Binkert. *Executive Vice President*

Robert C. Darling, M.D. *Director, Physical Medicine and Rehabilitation*

(Mrs.) Eleanor Shelly, O.T.R. *Chief Occupational Therapist*

CURATIVE WORKSHOP, UNIVERSITY OF PENNSYLVANIA, PHILADELPHIA, PA.

William Erdman, Jr., M.D. *Medical Consultant*

S. A. Christides, M.D. *Medical Consultant*

Clare S. Spackman, O.T.R. *Director*

DELAWARE CURATIVE WORKSHOP, INC., WILMINGTON, DEL.

Mae D. Hightower, O.T.R. *Executive Director*
Arthur J. Heather, M.D. *Medical Consultant*
(Mrs.) Betty B. Hayward, O.T.R. *Chief Occupational Therapist*

DISTRICT OF COLUMBIA, GENERAL HOSPITAL, WASHINGTON, D.C.

John P. Nasou, M.D. *Medical Director*
David A. Zohn, M.D. *Chief of Physical Medicine and Rehabilitation*
(Mrs.) I. R. Achter, O.T.R. *Chief Occupational Therapist*

HARTFORD REHABILITATION CENTER, INC., HARTFORD, CONN.

June Sokolov, O.T.R. *Executive Director*
Arthur D. Wolf, M.D. *Supervising Medical Consultant*
Clari Bare, O.T.R. *Supervisor of Occupational Therapy*

HILLSIDE HOSPITAL, GLEN OAKS, N.Y.

Lewis L. Robbins, M.D. *Medical Director*
Joseph C. Chase, O.T.R. *Director, Occupational Therapy Division*

INSTITUTE OF THE PENNSYLVANIA HOSPITAL, PHILADELPHIA, PA.

J. Martin Myers, M.D. *Director*
Robert E. Jones, M.D. *Medical Director*
Elise Remont, O.T.R. *Director of Occupational Therapy*

INSTITUTE OF REHABILITATION MEDICINE, NEW YORK UNIVERSITY

MEDICAL CENTER, NEW YORK, N.Y.
Howard A. Rusk, M.D. *Medical Director*
Martha E. Schnebly, O.T.R. *Director of Occupational Therapy*

MAGEE MEMORIAL HOSPITAL FOR CONVALESCENTS AND REHABILITATION
CENTER, PHILADELPHIA, PA.

H. Frazer Parry, M.D. *Director*
Thomas L. Ashcom, Jr., O.T.R. *Director of Occupational Therapy*

METROPOLITAN HOSPITAL, NEW YORK, N.Y.

Ferdinand Piazza, M.D. *Hospital Administrator, Medical*
Catherine Hinterbuchner, M.D. *Director of Clinical Services*
Ruth Kraiem, O.T.R. *Acting Chief Occupational Therapist*

MONTEFIORE HOSPITAL AND MEDICAL CENTER, NEW YORK, N.Y.

Martin Cherkasky, M.D. *Director*
Jerome S. Tobis, M.D. *Chief, Division of Rehabilitation Medicine*
Wimberly Edwards, O.T.R. *Director of Occupational Therapy*

MORRISTOWN MEMORIAL HOSPITAL, MORRISTOWN, N.J.

Robert Boyd. *Administrator*
Martin Lasoff, M.D. *Director, Department of Physical Medicine and Rehabilitation*
Janet M. Murray, O.T.R. *Chief Occupational Therapist*

MOSS REHABILITATION HOSPITAL, PHILADELPHIA, PA.

Martin Kaplan. *Executive Director*
Carl Levenson, M.D. *Medical Director*
Allison Dea, O.T.R. *Chief Occupational Therapist*

MOUNT SINAI HOSPITAL, NEW YORK, N.Y.

Martin R. Steinberg, M.D. *Director*
Lawrence H. Wisham, M.D. *Chief of Physical Medicine and Rehabilitation*
Josephine Cohen, O.T.R. *Chief Occupational Therapist*

NEWINGTON HOSPITAL FOR CRIPPLED CHILDREN, NEWINGTON, CONN.

Burr H. Curtis. *Medical and Executive Director*
John C. Allen, M.D. *Physiatrist*
Mary Fiorentino, O.T.R. *Director of Occupational Therapy*

NEW JERSEY STATE HOSPITAL, TRENTON, N.J.

To be appointed. *Medical Director and Chief Executive Officer*
Naida Ackley, O.T.R. *Director of Occupational Therapy*

NEW YORK MEDICAL COLLEGE—CENTER FOR CHRONIC DISEASE, BIRD S. COLER HOSPITAL, WELFARE ISLAND, N.Y.

Milton Lowenthal, M.D. *Director*
Milton Holtzman, M.D. *Chief of Clinical Services Physical Medicine and Rehabilitation*
(Mrs.) Carolyn Aggarwal, O.T.R. *Chief, Occupational Therapy Section*

NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE

Allen D. Miller, M.D. *Commissioner*
(Mrs.) Viola R. McGrath, O.T.R. *Bureau of Education and Training*
Bearldean B. Burke, O.T.R. *Division of Mental Health*

New York State Psychiatric Institute, New York, N.Y.
Lawrence C. Kolb, M.D. *Director*
(Mrs.) Alice R. Trei, O.T.R. *Senior Occupational Therapist*
(Mrs.) Gail S. Fidler, O.T.R. *Director of Professional Education, Occupational Therapy*
Kenneth V. Skrivaneck, O.T.R. *Clinical Supervisor of Occupational Therapy Services*

PENNSYLVANIA DEPARTMENT OF PUBLIC WELFARE

William P. Camp, M.D. *Commissioner of Mental Health*
Elizabeth P. Ridgway, O.T.R. *Patient Activities Consultant*

Allentown State Hospital, Allentown, Pa.
Howard T. Fiedler, M.D. *Superintendent*
Raymond Shettel, M.D. *Assistant Superintendent*
(Mrs.) Tena G. Miller, O.T.R. *Director, Occupational Therapy*

Wernersville State Hospital, Wernersville, Pa.
Mark Risser, M.D. *Superintendent*
Wilbur M. Lutz, M.D. *Assistant Superintendent*
William Starnes, Jr., O.T.R. *Director of Occupational Therapy*
(Mrs.) Charlotte R. Staub, O.T.R. *Educational Director of Occupational Therapy*

THE REHABILITATION CENTER OF SOUTHERN FAIRFIELD COUNTY, INC., STAMFORD, CONN.

Ruby C. Oscarson, R.P.T. *Executive Director*
Charles G. McKendree, M.D. *Medical Director*
Esther Gove, O.T.R. *Director of Occupational Therapy*

THE ROOSEVELT HOSPITAL, NEW YORK, N.Y.

Peter B. Terenzio. *Executive Vice President*

John J. Untereker, M.D. *Chairman, Department of Physical Medicine and Rehabilitation*

Louise A. Rathbone, O.T.R. *Chief Occupational Therapist*

ST. VINCENT'S HOSPITAL AND MEDICAL CENTER OF NEW YORK, NEW YORK, N.Y.

Reiss Mental Health Pavilion

Harvey Tompkins, M.D. *Director of Psychiatry*

Anthony Maniscalco, M.D. *Assistant Director of Psychiatry*

Jenifer Thuell, O.T.R. *Coordinator of Occupational Therapy Services*

VETERANS ADMINISTRATION HOSPITALS

Central Office, Washington, D.C.

A. B. C. Knudson, M.D. *Director, Physical Medicine and Rehabilitation Service, Department of Medicine and Surgery*

Bronx, New York

A. M. Kleinman, M.D. *Hospital Director*

Alfred Ebel, M.D. *Chief, Physical Medicine and Rehabilitation Service*

Cecilia Sattely, O.T.R. *Chief, Occupational Therapy*

Manhattan, New York, N.Y.

Sydney Selesnick, M.D. *Hospital Director*

Edith L. Kristeller, M.D. *Chief, Physical Medicine and Rehabilitation Service*

Lillian Danshefsky, O.T.R. *Chief, Occupational Therapy*

Registration and Expenses

► REGISTRATION

Before attending University courses, each student must register in person during the registration period (see the Academic Calendar, on page 40). The registration procedure is as follows:

1. The student reports to the Office of Physical and Occupational Therapy at the College of Physicians and Surgeons, 630 West 168th Street, and fills out various forms giving information required for University records.
2. He has his program approved by the Director.
3. He takes his completed forms to the Office of the Registrar and pays his fees in the Office of the Bursar.

The Office of the Registrar is open Monday through Friday, 9 a.m. to 5 p.m.

All students are asked to give social security numbers when registering in the University. Those who do not now have a number should obtain one from their local social security office well in advance of registration.

ENGLISH PLACEMENT TESTS

All degree candidates must take a placement test in English: the English Placement Test if their first language is English, the English Language Placement Test if their first language is not English (see below). The English Placement Test is given the week of registration for the autumn term; the results of this test are announced at the first meeting of *English F1101*, when the student is advised of the appropriate English course to take, depending on his score.

ENGLISH LANGUAGE PLACEMENT TEST

Students whose first language is not English must take the English Language Placement Test before they register for courses. Performance on this examination determines whether or not further training in the language is needed. Students who do not meet the standards of the University may be required to follow a program of English before beginning professional courses or, if time permits, in conjunction with professional courses. No point credit is given for these courses, and their addition to the program of study lengthens the time necessary to earn the B.S. degree.

An appointment to take this test may be made in person at 206 Foreign Student Center, on the main campus at 116th Street and Broadway. On the day following the test, the student should consult the adviser in English for foreign students to obtain the number of the course for which he must register.

AUDITING COURSES

Degree candidates who are enrolled for 15 points or more in the current term may audit one or two courses in any division of the University without charge. Application is made at the Registrar's Office during the change-of-program period in each term: Monday, October 2, through Friday, October 6, for the autumn term; Monday, February 12, through Friday, February 16, for the spring term. Applications require (a) the certification of the Registrar that the student is eligible to audit, and (b) the approval of the dean of the school in which the courses are offered. For approval to audit Graduate Faculties courses, consult the Graduate Faculties division in the Registrar's Office.

For obvious reasons, elementary language courses, laboratory courses, and seminars will not be open to auditors. Other courses may be closed because of space limitations. In no case will an audited course appear on the student's record, nor is it possible to turn an audited course into a credit course by paying the fee after the fact.

REGULATIONS

Each person whose registration has been completed will be considered a student of the University during the term for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he is first registered.

The privileges of the University are not available to any student until he has completed his registration. Since, under the University statutes, payment of fees is part of registration, no student's registration is complete until his fees have been paid. No student is permitted to attend any University course for which he is not officially registered unless he has been granted auditing privileges. No student may register after the stated period unless he obtains the written consent of the proper dean or director.

ATTENDANCE AND LENGTH OF RESIDENCE

No degree or certificate will be granted to a student who has not registered for and attended at the University courses of instruction equivalent to at least one academic year of full-time work.

Students are held accountable for absences incurred owing to late enrollment and are expected to attend punctually each class or laboratory exercise in each course. For credit toward the certificate or degree, regular attendance is required in addition to the proficiency attested by classwork and examination.

Students whose religious duties conflict at any time with academic requirements should apply to the proper director for an equitable solution.

A student in good standing may, for a valid reason, be granted a leave of absence by the Director.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems proper. The disciplinary authority of the University is vested in the President and, subject to his reserved powers, in the dean of each faculty and the director of the work of each administrative board.

GRADES AND CREDITS

The student's performance in a course is reported according to the following grades: A, excellent; B, good; C, fair; and F, failure. A, B, and C are passing grades counting for credit toward the degree or certificate and accepted as the basis for advancement to a higher course. A student who does not receive a mark of C or above in a prescribed course must repeat that course.

The mark MU is not a grade and simply implies that in the opinion of the instructor the student may be given the privilege of taking a special examination. When this mark is given at the end of the autumn term, it does not necessarily mean that the student may not pursue his courses in the spring term, but that he will get no credit for the course in question until he has received a definite passing grade.

The mark of INC (incomplete) is given only to a student who has satisfactorily met all the requirements of a course but who has been compelled for reasons beyond his control to postpone certain assigned papers or reports.

Students who are absent from final examinations without excuse will receive an F in the course. Permission to be absent may be granted by the Directors only in the event of illness or some other emergency. Excused students must take a special examination as soon as arrangements can be made.

► ORIENTATION PROGRAM FOR NEW FOREIGN STUDENTS

The Foreign Student Center orientation program for new foreign students is held each fall to introduce students to the Center and its services, the University, and New York City. The five-day program includes the English Language Placement Test, information about registration, meetings with a dean or professor of the school in which the student is enrolled, tours of the Morningside campus and its library, a reception to meet the President of the University, a coffee hour with the International Students Club, and an opportunity to visit an American family.

The program begins September 19 at 10 a.m. in the auditorium of Earl Hall, on the Morningside campus. At that time students receive schedules for the rest of the activities. Although foreign students are not required to attend, they are welcome to come to any part of the program which is of interest to them.

► FEES

Tuition is payable each term in advance and as part of registration; the student health and hospital fee for the academic year is payable at registration in September. If these fees are paid after the last day of registration (see the Academic Calendar), they will not be reduced, and a late fee of \$6 will be imposed.

The following fees, prescribed by statute *for each autumn and spring term*, are subject to change at the discretion of the trustees:

Tuition for all courses, per point, except where a special fee is fixed	\$ 52.00
With the proviso that the fee for a program of 15 or more points is	775.00
Clinical supervisory fee	12.00
Student health and hospital fee (see below)	65.36

APPLICATION FEES AND LATE FEES

Application for admission	\$ 15.00
Application for each special examination	10.00
Renewal of application for a degree or certificate (see below)	1.00
Late registration	6.00
Late application, or late renewal of application, for a degree or certificate	5.00

ACCEPTANCE FEE

Within two weeks after an applicant has been notified that his application has been accepted, he must notify the Director that he intends to matriculate and must accompany his letter with a check or money order for \$50, payable to Columbia University. This acceptance fee will be retained by the University, and if the applicant does not register for the following academic year, it will not be returned unless the University for any reason cancels the acceptance. If he registers in the courses in physical or occupational therapy in the class to which he has been admitted, the amount of the acceptance fee will be deducted from his tuition.

WITHDRAWAL AND REBATES

A student in good academic standing who is not subject to discipline will always be given an honorable discharge if he wishes to withdraw from the University. If he is under twenty-one years of age, his parent or guardian must first give consent in writing to the Director.

Any adjustment of the tuition that the student has paid is reckoned from the date on which the Registrar receives the student's written notification. The student health and hospital fee, application fees, late fees, and special fees are not subject to rebate. Up to and including the second Saturday after the first day of classes tuition will be retained in the following amount:

Full-time study	\$50.00
Part-time study	25.00

After the second Saturday after the first day of classes in the term, the above amount is retained plus 20 percent of the remaining tuition for each week, or part of a week, of the term up to the date on which the student's written notice of withdrawal is received by the Registrar.

STUDENT HEALTH AND HOSPITAL FEE

The student health and hospital fee is used to pay the annual premium of the Associated Hospital Service of New York for hospital insurance and to pay part of the cost of the student health service. A student who already carries hospital insurance will be charged \$7.28.

A physical examination (including x-ray and tuberculin tests) will be given each student in the professional courses during the first term of attendance. Further physical examinations will be given during the training period, whenever it is deemed advisable.

A student who requires hospitalization will be taken care of either in the wards of the Medical Center, or elsewhere, under his hospitalization insurance policy.

Daily office hours are held by the Student Health Service, Room 2-220, Vanderbilt Clinic. Members of the Health Service are available to attend ill students who live near the Medical Center.

APPLICATION OR RENEWAL OF APPLICATION FOR A DEGREE OR CERTIFICATE

A candidate for a degree or certificate must file application by the date specified in the Academic Calendar. If the degree or certificate is not earned by the next regular time for the issuance of diplomas subsequent to the date of filing, the application may be renewed for a fee of \$1 each time that the candidate chooses to come up for consideration. Degrees and certificates are awarded three times a year—in October, February, and June.

► ESTIMATED EXPENSES

UNIVERSITY EXPENSES (TOTAL PROGRAM)	DEGREE PROGRAM	CERTIFICATE PROGRAM
Tuition	\$3,100.00	\$1,550.00
Clinical supervisory fee	24.00	12.00
Health and hospital fee	130.72	65.36
TOTAL	\$3,254.72	\$1,627.36

LIVING EXPENSES (PER ACADEMIC YEAR)	
Room	\$350-\$600
Board	650
Subway and bus fares (within program)	65
TOTAL	\$1,065-\$1,315

The costs of books, materials, equipment, and uniforms varies with the program chosen. In physical therapy, degree candidates will spend, in all, about \$225; certificate candidates, about \$200. In occupational therapy, degree candidates will spend about \$250; certificate candidates, about \$200. Fees for materials and equipment in studio classes are payable at the time of registration and are subject to change in accord with market prices.

During clinical practice, occupational therapy students spend some four months in residence in hospitals where they receive full maintenance (room, board, and laundry). In some instances a maintenance arrangement is possible for a longer period of time. The living expenses of physical therapy students during the summer clinical practice periods will vary depending upon the accommodations provided by the hospitals to which they are assigned.

Students who are assigned to hospitals outside the local area will need to pay nominal transportation expenses.

IMPORTANT NOTE: According to Treasury decision 6291, under Section 162 of the 1954 Internal Revenue Code, income tax deductions are allowed in many instances for tuition and other educational expenses. Students are referred to the federal ruling on income tax deductions for teachers and other professional people seeking to maintain or improve skills required in their employment.

► HOUSING

UNIVERSITY RESIDENCE HALLS

The University provides housing on the Morningside campus for undergraduate and graduate men and women, both single and married. Inquiries about men's housing and the accommodations for married students should be directed to the Residence Halls Office, 125 Livingston Hall, Columbia University, New York, N. Y. 10027. Women students should write to the women's residence hall, Johnson Hall, 411 West 116th Street, New York, N.Y. 10027.

Rates in the graduate men's residence halls, which also accommodate undergraduates other than those in Columbia College, range from \$310 to \$550 for the academic year. An optional prepaid board plan is available. The cost of fifteen meals a week is \$500 for the academic year, exclusive of the Thanksgiving, Christmas, and spring holidays and the period between terms. All rates are subject to change.

In Johnson Hall, room rates for the academic year range from \$350 to \$600, with \$520 the median rate. The rooms at \$350 are assigned to full-time graduate students who can give evidence of acute financial need; applications for these rooms must be accompanied by a special statement (Johnson Hall will provide the necessary form upon request). All residents are required to take breakfast and dinner at Johnson Hall seven days a week at a cost of \$475 for the academic year, exclusive of the Christmas holidays. All rates are subject to change.

Burgess, at 542 West 112th Street, is a newly renovated, air-conditioned building for married graduate students. Accommodations range from efficiency apartments (one room plus kitchenette and bath) to two-bedroom apartments; basic furniture is provided. Rates range from \$127 to \$210 a month, including utilities. Requests for further information and for application forms should be directed to the Residence Halls Office, 125 Livingston Hall.

OFF-CAMPUS HOUSING

Students who wish to live in furnished rooms or apartments off campus should consult the Registry of Off-Campus Accommodations, 115 Livingston Hall, Columbia University, New York, N.Y. 10027, for information. Single rooms in private apartments range from \$12 to \$20 a week; double rooms, from \$20 to 25. Most apartments, when available, are in the price range of \$90 to \$150 a month.

International House, a privately owned student residence near the Morningside campus, has rooms for about five hundred graduate students, both foreign and American. Rates for the academic year are \$555 to \$720, including breakfast. To be eligible for admission a student must be at least twenty-one years old and must be registered for a minimum of 12 points or for a program of full-time research. Inquiries should be addressed to the Committee on Admissions, International House, 500 Riverside Drive, New York, N.Y. 10027.

► LOANS TO STUDENTS

Long-term loans at low interest rates are available from the University for tuition and fees, and under certain circumstances, for living expenses. Returning students should apply well in advance of September 1, for the autumn term, and of December 15, for the spring term. New students should apply before the registration period. Applications should be filed with the director of the program in which the student is enrolled.

Many states (among them Maine, Massachusetts, New Jersey, and New York) have loan funds available to their residents who are United States citizens, and federal loan funds are available to full-time students under the National Defense Student Loan Program (Title II of the National Defense Education Act of 1958).

For further information on loans, consult either the appropriate director or the Office of Financial Aid.

► SCHOLARSHIPS AND TRAINEESHIPS

A limited number of scholarships are available to students in occupational therapy and in physical therapy. Funds administered by a scholarship committee of the College of Physicians and Surgeons are made available by various agencies and foundations: the Vocational Rehabilitation Administration, United States Department of Health, Education, and Welfare; and the United Cerebral Palsy Association, Inc. Applications are judged on the basis of scholarship, financial need, and an assessment of potential contribution to the field; applications should be filed with the appropriate director two months before the beginning of the autumn or spring term on a form provided by the office of the director. Other scholarship opportunities are available by direct application to the agencies concerned: the New York Occupational Therapy Association; the National Association of Business Clubs; the National Society for Crippled Children and Adults; the Elks National Foundation;

and other foundations and local service organizations known personally to the student.

► NEW YORK STATE SCHOLAR INCENTIVE AWARDS

Any student who has been a legal resident of New York State for the preceding year is entitled to a Scholar Incentive Award for each term in which he is registered as a full-time degree candidate. The amount of this award is based upon the net taxable balance of his income and the income of those responsible for his support, as reported on the New York State income tax return for the previous calendar year.

Further information and application forms may be obtained from the Department of Education, Regents Examination and Scholarship Center, Albany, N.Y. 12201. Application for awards should be filed two months in advance of the beginning of the term for which the grant is to apply.

► EMPLOYMENT

A student who needs to earn part of his expenses by working part time during the academic year should get in touch with the Student Employment Division, Office of University Placement and Career Planning, 607 Dodge (on the Morning-side campus). The facilities of the Division are available to all registered students of the University and its affiliates, staff members, and wives of students.

TERM-TIME POSITIONS

Students should register for term-time work after class schedules are fixed, because many jobs have definite hour specifications.

Term-time positions available through the Division are generally characterized by the following:

1. They consist of ten to fifteen hours a week in a three-to-four-hour sequence every day at the same time, Monday through Friday. Some positions are downtown and require commuting from the campus.
2. The rate of pay is from \$1.50 to \$2 an hour.
3. Most positions are of a clerical or unskilled nature. Some may require a certain amount of manual labor.
4. Typing is the only specialized skill for which there is much demand.

SUMMER POSITIONS

Summer positions are similar to those available during the academic year. As a rule, professional or specialized positions are rare, even at the graduate level; however, there are summer training programs for students nearing graduation who are seriously considering careers in certain industries or in government. Interviews for these training programs begin in early December, and those for other summer employment begin at the start of the spring term.

WIVES OF STUDENTS

Wives of students may also register with the Division for term-time work. Those who are interested in full-time jobs on the campus should contact the University Personnel Office, 209 Dodge. Most of these jobs require typing and many require shorthand as well. Full-time employees are eligible for 6 points of tuition exemption in each term, primarily in evening classes in the School of General Studies.

SKILL DEVELOPMENT COURSES

Skill development courses are sponsored by the Student Employment Division to help students obtain higher paying term-time and summer jobs. These courses are given in the evenings and on Saturdays; there is a registration fee of approximately \$3 a course. The courses carry no credit and are offered apart from the regular University curriculum. A sampling of the courses includes elementary type-writing, waiting on tables, and proofreading and editing. An up-to-date listing can be obtained by writing to the Student Employment Division.

► STUDENT ACTIVITIES

The Physical Therapy and Occupational Therapy Clubs are the student organizations which promote recreational, social, and professional activities. Within these clubs each class of students has its own organization and officers with representatives on the University Student Council.

The Columbia University Student Council, composed of elected representatives from the students of the several schools and faculties of the University, represents the students in matters affecting the student body as a whole, with the object of promoting cooperation and understanding among the students, faculty, and administration.

The facilities of the main campus at Broadway and 116th Street as well as those of the Medical Center are open to physical and occupational therapy students. *The University Student Handbook*, which is distributed from the school office at registration, gives complete details about the libraries, sports, religious activities, social life on the campus, and the resources of New York City that students may enjoy at little expense.

Graduates of the physical and occupational therapy programs may have membership in the Alumni Federation of Columbia University.

Academic Calendar, 1967-1968

AUTUMN TERM

- Sept 19-23** Tuesday-Saturday. Foreign Student Center orientation program for new foreign students (see page 33).
- 26** Tuesday.* Registration, including payment of fees.
- 28** **Thursday. Classes begin.**
- Oct 6** Friday. Last day to change programs.
- 25** Wednesday. Award of October degrees and certificates.
- Nov 7** Tuesday. Election Day. Holiday.
- 23-26** **Thursday-Sunday. Thanksgiving Holidays.**
- Dec 1** Friday.† Last day to apply or reapply for February degrees and certificates.
- 24** **Sunday, through January 7, 1968, Sunday. Christmas Holidays.**
- Jan 22** Monday, through February 1, Thursday. Midyear examinations.
- Feb 1** Thursday. Term ends.

SPRING TERM

- Feb 6** Tuesday.* Registration, including payment of fees.
- 7** Wednesday. Classes begin.
- 16** Friday. Last day to change programs.
- 28** Wednesday. Award of February degrees and certificates.
- Mar 1** Friday.† Last day to apply or reapply for June degrees and certificates.
- 31** **Sunday, through April 7, Sunday. Spring Holidays.**
- May 20-30** Monday-Thursday. Final examinations. Term ends.
- 30** Thursday. Memorial Day. A University holiday, except for scheduled examinations.

COMMENCEMENT

- June 2** Sunday. Baccalaureate Service.
- 4** **Tuesday. Conferral of degrees and certificates.**
-
- Aug 1** Thursday.† Last day to apply or reapply for October degrees and certificates.

* Students allowed to register after the period specified must pay a late fee.

† Students who apply after this date must pay a late fee.

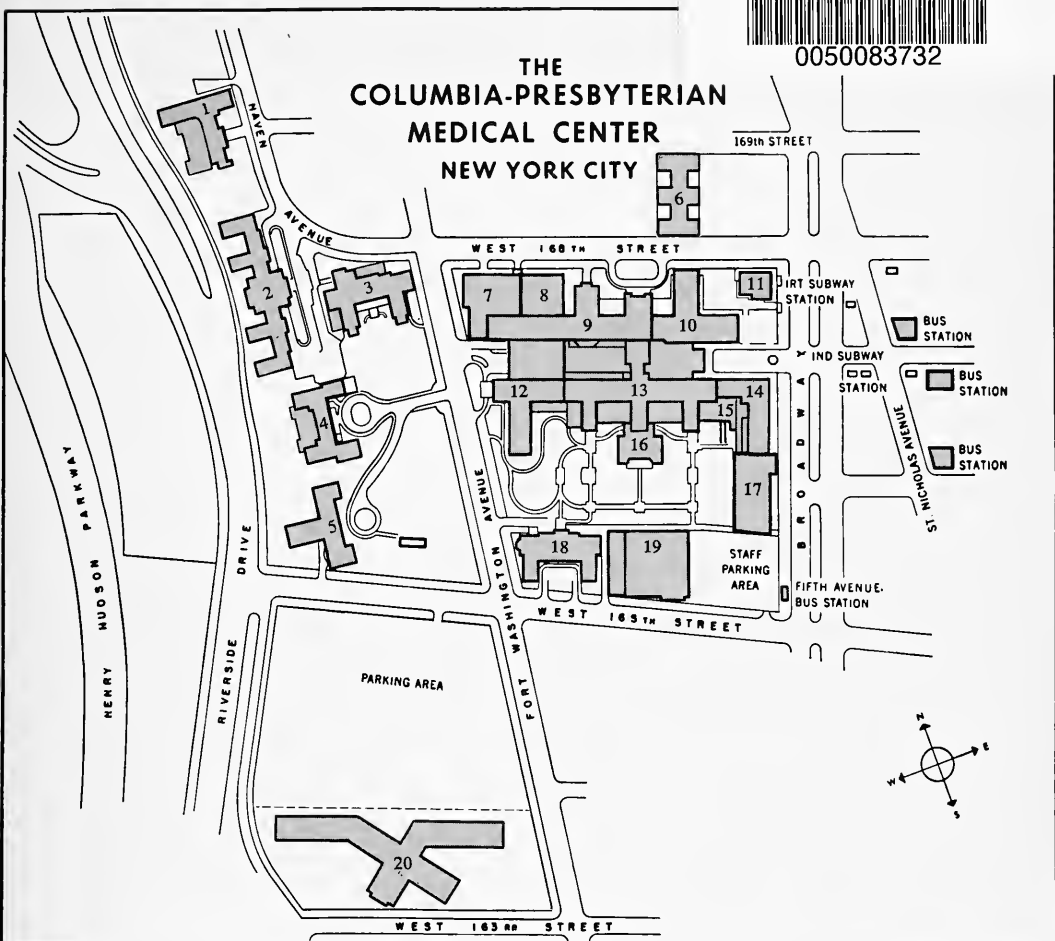


COURSES IN PHYSICAL THERAPY AND OCCUPATIONAL THERAPY ARE IN THE WILLIAM BLACK MEDICAL RESEARCH BUILDING OF THE COLLEGE OF PHYSICIANS AND SURGEONS



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THE COLUMBIA-PRESBYTERIAN MEDICAL CENTER NEW YORK CITY



- | | |
|---|--|
| 1. BARD HALL | 12. HARKNESS PAVILION |
| 2. N.Y. STATE PSYCHIATRIC INSTITUTE
PSYCHOANALYTIC CLINIC | 13. PRESBYTERIAN HOSPITAL
N.Y. ORTHOPEDIC HOSPITAL
SLOANE HOSPITAL
SQUIER UROLOGICAL CLINIC |
| 3. NEUROLOGICAL INSTITUTE | 14. BABIES HOSPITAL |
| 4. MAXWELL HALL | 15. RADIOTHERAPY CENTER (UNDER
CONSTRUCTION) |
| 5. HARKNESS MEMORIAL HALL | 16. PAULINE A. HARTFORD MEMORIAL
CHAPEL |
| 6. GEORGIAN NURSES RESIDENCE | 17. PROPOSED BABIES HOSPITAL
RESEARCH TEACHING
AND
OFFICE ADDITION |
| 7. WILLIAM BLACK MEDICAL
RESEARCH BUILDING | 18. INSTITUTE OF OPHTHALMOLOGY |
| 8. ALUMNI AUDITORIUM | 19. CENTRAL SERVICE BUILDING |
| 9. COLLEGE OF PHYSICIANS & SURGEONS | 20. FRANCIS DELAFIELD HOSPITAL,
N.Y.C. |
| 10. VANDERBILT CLINIC
SCHOOL OF DENTAL AND ORAL SURGERY | |
| 11. N.Y. CITY DEPARTMENT OF HEALTH
SCHOOL OF PUBLIC HEALTH AND
ADMINISTRATIVE MEDICINE
WASHINGTON HEIGHTS HEALTH
CENTER, N.Y.C. | |

To Reach the Medical Center: By subway, the Washington Heights Express of the IND Eighth Avenue or the Van Cortland Park train of the IRT Seventh Avenue. By bus, Fifth Avenue Bus #4 or #5. By car, the Westside Highway exit at the George Washington Bridge. Parking facilities are available at West 164th Street and Fort Washington Avenue.

To Columbia Students

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MORE DIRECTLY SERVE YOUR EDUCATION.